

REMARKS

Claims 1-14, 16, 17, 19, 22, 24, and 25 are pending. Claims 1, 8, and 22 have been amended and claims 15, 18, 20, 21, and 23 have been canceled.

In the Office Action, claims 1-14, 17, and 19-25 were rejected under 35 USC § 103(a) based on the Tutt patent publication. Applicants request withdrawal of this rejection for the following reasons.

Claim 1 has been amended to recite that “the first, second, and third emission layers are substantially coplanar layers.” (See, for example, Paragraphs [29] and [30] with reference to Figure 2C for support). The Tutt publication does not disclose these features.

The Tutt publication discloses an organic light-emitting diode which includes three emission layers. However, these emission layers 24, 26, and 32 are formed one on top of the other, and therefore are not coplanar as required by amended claim 1. (See Paragraphs [122] - [126] with reference to Figure 3). This structure in Tutt is different from and considerably more complex than the arrangement recited in claim 1.

For example, as made clear in Paragraphs [123]-[125], forming blue, green, and red emission layers on top of one another requires additional hole-blocking layers to be formed. For example, a hole-blocking layer 36 must be formed over the blue emission layer 24, to prevent holes from the blue emission layer from passing to the green and red emission layers. An additional hole-blocking layer is required to block holes from passing into the red emission layer from the green emission layer.

Forming alternating emission and hole-blocking layers in seriatim in the manner disclosed by Tutt increases the cost, number of process steps, and thickness of the overall device. In contrast, claim 1 recites that its emission layers are substantially coplanar with one another. Moreover, only a single hole-blocking layer may be formed for and over all three coplanar emission layers. As a result, the device of claim 1 may be formed more economically, using fewer process steps, and with reduced thickness.¹

Based on the foregoing differences, it is respectfully submitted that claim 1 and its dependent claims are allowable. Applicants further submit that claims 8, 22, and their dependent claims are allowable as they have been amended to recite features similar to those which patentably distinguish claim 1 from the Tutt publication.

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and timely allowance of the application are respectfully requested.

To the extent necessary, a petition for an extension of time under 37 CFR § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

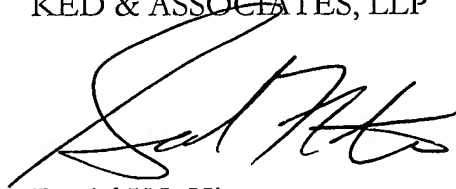
¹ Applicants submit that these advantages are not intended to limit the scope of the claims in any way. Rather, they are mentioned merely to illustrate how some embodiments of the invention may be implemented. Applicants further submit that the patentability of the claims as amended herein lies in the structural differences and not the advantages that may be obtained thereby.

Serial No. 10/779,874
Amdt. dated August 1, 2007
Reply to Office Action of May 1, 2007

Docket No. K-0610

concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and
please credit any excess fees to such deposit account.

Respectfully submitted,
KED & ASSOCIATES, LLP

A handwritten signature in black ink, appearing to read 'Daniel Y.J. Kim', is written over the text of the firm name.

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Date: July 31, 2007

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